BRUHATH BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone & Division

Dasarahalli Sub division

Name of Work: Desilting and resetting of drain and re asphalting to 3rd Main 4th main 7th main road of MEI Layout in ward no.14, Dasarahalli Sub Division

(32)

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು

ಕಾಮಗಾರಿ ವರದಿ:

ಕಾಮಗಾರಿಯ ಹೆಸರು: **Desilting and resetting of drain and re asphalting to to 3rd Main 4th main 7th main road of MEI Layout in ward no.14, Dasarahalli Sub Division**

ಅಂದಾಜು ಮೊತ್ತ: **50.00**ಲಕ್ಷ.

ಕಾಮಗಾರಿ/JOB ಸಂಕೇತ: **014-18-000068, P code-3316**

ಅದರಂತೆ, ಪರಿಶೀಲಿಸಲಾಗಿ ಸದರಿ ರಸ್ತೆಗಳು ಬಾಗಲುಗುಂಟೆ ವಾರ್ಡ್ ನಂ: 14ರ ವ್ಯಾಪ್ತಿಗೆ ಒಳಪಟ್ಟಿದ್ದು ಬಾಗಲಗುಂಟೆ ವ್ಯಾಪ್ತಿಯ ಚರಂಡಿಗಳಲ್ಲಿ ಹೂಳು ತುಂಬಿ ಚರಂಡಿಯ ನೀರು ರಸ್ತೆಯ ಮೇಲ್ಭಾಗದಲ್ಲಿ ಹರಿಯುವುದರಿಂದ ಸಾರ್ವಜನಿಕರಿಗೆ, ವಾಹನ ಸವಾರರಿಗೆ ಮತ್ತು ಶಾಲಾ ಮಕ್ಕಳಿಗೆ ಓಡಾಡಲು ತುಂಬಾ ತೊಂದರೆಯಾಗುತ್ತಿರುತ್ತದೆ.

ಅದರಂತೆ ಮೇಲಿನ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳುವುದು ಸಾರ್ವಜನಿಕರ ಹಿತದೃಷ್ಟಿಯಿಂದ ಅತಿಅವಶ್ಯಕವಾಗಿದ್ದು, 2018-19ನೇ ಸಾಲಿನ ಲೋಕಪಯೋಗಿ ಬಂದರು ಮತ್ತು ಒಳನಾಡು ಜಲಸಾರಿಗೆ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ವೃತ್ತ ದರಪಟ್ಟಿಯಂತೆ ಅಂದಾಜನ್ನು ರೂ.25.00ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಾಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಲು ಕೋರಿ ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ.

1. Earthwork in surface excavation in ordinary soil
2. Providing and laying in position plain cement concrete of mix1:4:8
3. Providing and removing centering, shuttering, strutting, propping etc
4. M20
5. Steel fe 500
6. 10 cm Thick rcc slab.., continue.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ:14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ , ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು

BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Dasarahalli Division

DETAILED ESTIMATE

of Work:Desilting and resetting of drain and re asphalting to 3rd main, 4th main, 7th main road of MEI Layout in ward no.14, Bagalagunte Dasarahalli Sub Division

ode: 014-18-000068 | **Estimate Amount : 50.00**

Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (P.No.6 I.No.2.3)								
Basic Rate	179.00							
Local calculation for 13.3 km (2x1.28x13.3)+57=91.048	91.05							
AW 6%	10.74							
Total	280.79							
Rcc Drain								
Cross road	2	61	1.1	0.9	120.78			
Road Work								
Nisarga Layout								
1st cross	2	124.22	0.90	0.15	33.54			
2nd cross	2	143.8	0.90	0.15	38.83			
3rd cross	2	163.35	0.90	0.15	44.10			
4th cross	2	177.54	0.90	0.15	47.94			
5th cross	2	101.72	0.90	0.15	27.46			
6th cross	2	120.00	0.90	0.15	32.40			
			Total		345.05	280.79	Sqm	96887
2 KSRB 4-1.3: Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.13/4.3)								
Basic Rate:	5102.00							
Area Weightage 6%	306.12							
Total	**5408.12**							
Rcc Drain								
Cross road	2	61	1.1	0.15	20.13			
					20.13	5408.12	cum	108865
3 KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 17 / Item No.4.36)								
Basic Rate	358.00							
AW@ 6%	21.48							
Total	**379.48**							
Rcc Drain								
Cross road	2x2	61		0.15	36.60			
For Drians Walls								
Cross road	2x4	61		0.60	292.80			
			Total		329.40	379.48	Sqm	125001

Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
Basic Rate:	5659.00							
Area Weightage 6%	339.54							
Total	**5998.54**							
Rcc Drain								
Cross road	2	61	0.9	0.15	16.47			
For Drians Walls								
Cross road	2x2	61	0.15	0.6	21.96			
				Total	**38.43**	**5998.54**	**Cum**	**230524**
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (TMT bars FC 500)(P.18/4.46.2) **Issue rate date : 02.11.2021 till now**								
Basic Rate	87417.00							
Area Weightage 6%	5245.02							
Total	**92662.02**							
For Drain								
Qty @60Kg/Cum		0.060	38.43		2.31			
				Total	**2.31**	**92662.02**	**T**	**213660**
Providing and and fixing Precast Concrete slab 10 CM thick witth all lead and lift as per specification **(Data Rate Approved) 2018-19**								
Basic Rate:	2337.00							
Total	**2337.00**							
Rcc Drain								
Cross road	2	61	0.9		109.80			
				Total	**109.80**	**2337.00**	**sqm**	**256603**
7 KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
Basic Rate	6.00							
AW@ 6%	0.36							
Total	**6.36**							
Camber Correction of road								
Nisarga layout								
1st cross	2	124.22	0.90		223.60			
2nd cross	2	143.80	0.90		258.84			
3rd cross	2	163.35	0.90		294.03			
4th cross	2	177.54	0.90		319.57			
5th cross	2	101.72	0.90		183.10			
6th cross	2	120.00	0.90		216.00			
			Total		**1495.13**	**6.36**	**Sqm**	**9509**

Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)								
Basic Rate	**1888.00**							
AW 6%	**113.28**							
Total	**2001.28**							
Camber Correction of road								
Nisarga layout								
1st cross	2	124.22	0.90	0.15	33.54			
2nd cross	2	143.80	0.90	0.15	38.83			
3rd cross	2	163.35	0.90	0.15	44.10			
4th cross	2	177.54	0.90	0.15	47.94			
5th cross	2	101.72	0.90	0.15	27.46			
6th cross	2	120.00	0.90	0.15	32.40			
					224.27	**2001.28**	**Cum**	**448827**
KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.158 I.No.21.6)**Issue Basic Rate Date;02.11.2021 to till now**								
Basic Rate	**32.00**							
AW 6%	**1.92**							
Total	**33.92**							
Camber Correction of road								
Nisarga layout								
1st cross	2	124.22	0.90		223.60			
2nd cross	2	143.80	0.90		258.84			
3rd cross	2	163.35	0.90		294.03			
4th cross	2	177.54	0.90		319.57			
5th cross	2	101.72	0.90		183.10			
6th cross	2	120.00	0.90		216.00			
					1495.13	**33.92**	**Sqm**	**50715**
10 KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.158 I.No.21.2)								
Basic Rate	**6.00**							
AW 6%	**0.36**							
Total	**6.36**							
Camber Correction of road								
Nisarga layout								
1st cross	1	124.22	5.50		683.21			
2nd cross	1	143.80	5.60		805.28			
3rd cross	1	163.35	5.80		947.43			
4th cross	1	177.54	5.80		1029.73			
5th cross	1	101.72	5.50		559.46			
6th cross	1	120.00	6.00		720.00			
					4745.11	**6.36**	**Sqm**	**30179**

	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	Issue Basic Rate Date;02.11.2021 to till now	12.00							
	AW 6%	0.72							
	Total	12.72							
	Nisarga layout								
	1st cross	1	124.22	5.50		683.21			
	2nd cross	1	143.80	5.60		805.28			
	3rd cross	1	163.35	5.80		947.43			
	4th cross	1	177.54	5.80		1029.73			
	5th cross	1	101.72	5.50		559.46			
	6th cross	1	120.00	6.00		720.00			
						4745.11	12.72	Sqm	60358
2	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) **Issue Basic Rate Date;02.11.2021 to till now**								
	Basic Rate	8062.00							
	AW 6%	483.72							
	Total	8545.72							
	Camber Correction of road								
	Nisarga layout								
	1st cross	2	124.22	0.90	0.05	11.18			
	2nd cross	2	143.80	0.90	0.05	12.94			
	3rd cross	2	163.35	0.90	0.05	14.70			
	4th cross	2	177.54	0.90	0.05	15.98			
	5th cross	2	101.72	0.90	0.05	9.15			
	6th cross	2	120.00	0.90	0.05	10.80			
						74.76	8545.72	Cum	638850
13	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) **Issue Basic Rate Date;02.11.2021 to till now**								
	Basic Rate	9617.00							
	AW 6%	577.02							
	Total	10194.02							
	Nisarga layout								
	1st cross	1	124.22	5.50	0.04	27.33			
	2nd cross	1	143.80	5.60	0.04	32.21			
	3rd cross	1	163.35	5.80	0.04	37.90			
	4th cross	1	177.54	5.80	0.04	41.19			
	5th cross	1	101.72	5.50	0.04	22.38			

Sl.	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
	615 cross		1	120.00	6.00	0.08	21.60		
				Total		189.80	142.35	10194.02	1451153
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.185 I.No.24.15)								1934871.00
	Basic Rate	429.00							
	AW 6%	25.74							
	Total	454.74							
	Nisarga Layout								
	1st Cross		2	124.22		0.10	24.84		
	2nd Cross		2	143.80		0.10	28.76		
	3rd Cross		2	163.35		0.10	32.67		
	4th Cross		2	177.54		0.10	35.51		
	5th Cross		2	101.72		0.10	20.34		
	Cross (615 cross)		2	120.00		0.10	24.00		
				Total			166.13	454.74	75544
								Sub Total	4283333.26
								Add 12% Towards GST Charges	513999.99
								Tender premium & Miscellaneous Charges	127122.62
								Grand Total	5000000.00

42,80,991.99
5136947.04
2005-07

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2018-19
4. That the provisions made in the estimate are necessary and quite essential.

Assistant Engineer
Ward No.14

Assistant Executive Engineer
Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees fifty Lakhs only
Under the Head of Account P-3316
Special development works.
Registered as no EE(D D.)/AS 84/21-22
to conditions contained in Enclosed Memo
No. EE/DD/AS/84/21-22 Dt. 13/1/22
Exe. Engr.
JE/AE. (DASARAHALLI) BBK

Technically Sanctioned for Rs. 50.00 Lakhs
(Rupees In words Rupees fifty lakh only
P-3316
Work Code No. 014-18-000068
Estimate No. 89/14-01-2022
subject to conditions contained in Enclosed Memo
No. CE/DZ/TS/89/2021-22 14-01-2022
AE/JE TA CE(D)

Name of work: Desilting and Resetting of drain and Re Asphalting to 3rd main, 4th main, 7th main Road MEI Layout in Ward no: 14 Bagalagunte